

## SEQUENCE LISTING

<110> Pyle, Ruth A.  
Xu, Jiangchun

<120> COMPOSITIONS AND METHODS FOR THE THERAPY  
AND DIAGNOSIS OF PANCREATIC CANCER

<130> 210121.543

<140> US

<141> 2001-07-30

<160> 32

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 888

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 663, 668, 743, 748, 749, 784, 786, 803, 820, 823, 832, 862,  
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<223> n = A,T,C or G

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cagagaagat attacaatat aaatagcaag tgcagaattt ctatggacac ttgaaaaaca 600
tactactaga gggtttaaat gcctacatgt aacttaaaca tttacatttt actctgaacc 660
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ttaatttggg ctaaaagctc agncctannc atctcatata taaaactctt cctttttacc 780
catnctac ttcaggatgg cgnnttcaaa ataacctcgn acncacttct tnaaataaag 840
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<210> 2

<211> 1118

<212> DNA

<213> Homo sapiens

<220>

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<222> 44, 76, 81, 139, 141, 369, 374, 422, 425, 482, 551, 557,  
562, 604, 612, 623, 673, 685, 699, 700, 707, 709, 720, 726,  
727, 745, 762, 766, 767, 784, 793, 803, 814, 819, 832, 834,  
847, 851, 865, 867, 868, 884, 889, 899, 901, 902, 903

<223> n = A,T,C or G

<221> misc\_feature

<222> 904, 905, 909, 911, 912, 921, 950, 973, 986, 992, 993, 997,  
1007, 1008, 1011, 1012, 1014, 1017, 1018, 1023, 1024, 1031,  
1032, 1033, 1035, 1054, 1055, 1062, 1063, 1065, 1080, 1083

<223> n = A,T,C or G

<400> 2

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ccacgtgccg gggctccana naccacgccc gaaacaccaa ataaatcaca gacgtgacaa 180
ttcggggagg agcatgaatc agctgttcc tctggaggag aaaaaggaaa caacaatcag 240
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tcggagcccc accctggcca cactgtctgt cggccacggg gtccctcacg tggggaccca 360
ggcccaacna cggntcccaa cctgtggagc tgtgtgcgca gccaccacca ctgcggcctc 420
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gggaaacccc cctttttttt ttgggncccg gnnaaanttt aaatttnngg nnanttnngc 1020
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<210> 3

<211> 974

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 553, 592, 630, 656, 684, 686, 739, 770, 794, 807, 814, 821,  
841, 849, 861, 876, 892, 924, 956, 963

<223> n = A,T,C or G

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gcttcacgag caagctgtcg gtgctgctgc tgctgctggg ccgcggcggc gtggacttcc 420
gcctggtgaa cgagctgctc gtctatggca tccacgtcac cagcagcatc ttaaaagccc 480
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ccatggggcc cgagggtctt acccaagaan cccttggett ttggttcctt aaaccnttgc 660
aagtcaaccg gggaagcaac ttantngggg gggacctggg cccaattggg cccgtggtgg 720
aacttttttg ggggggcna aaattggggg aaaggggccc ccccttggn aaataaaatg 780
gaaattgggc caangggaac aaaccanggg caanaaaggg nttacccct taaaaacca 840
ngggaaccnc cagggggggg ngggggacct tggacnaacc ccctaattgg gnaccctcc 900
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<210> 4
<211> 865
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 549, 567, 606, 668, 671, 687, 703, 732, 763, 777, 790, 799,
807, 847, 861
<223> n = A,T,C or G

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ctccgaccgg gtggccgcca gcaatattgt ccagatgaag gacgatcatg acaagatgtt 180
taagatgagt gaaaagatat tactcctgtg tgttgagag gctggagaca ctgtacagtt 240
tgcagaatat attcagaaaa acgtgcaact ttataagatg cgaaatggat atgaattgtc 300
tcccacggca gcagctaact tcacacggcg aaacctgctg actgtcttcg gagtcggacc 360
ccatatcatg tgaacctcct cctggctggc tatgatgagc atgaagggcc agcgtgtat 420
tacctggact acctgcagcc ttggccaagg ccccttttgc agcccacggc tatggtgcct 480
tcctgactct cagtatctc gaccgatact acacaccoga ctatctcac tgagaaggca 540
gtggaactnc ttaggaaatg tctggangaa ctccagaaac gcttcacct gaatcttgc 600
accttnagt ttcgaatcat tgacaaaaat ggcattcatg acctggataa catttcctt 660
ccaaacang nttctaacat tattgtntc ccttccctt tgnacaggaa ctttttttt 720
gaaggggctc cnttattttt tttctactct tttcaaggcg ccnctttttg ataaaanggg 780
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<210> 5
<211> 731
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 513, 520, 537, 561, 620, 627, 663, 715, 717
<223> n = A,T,C or G

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cttgaatgtg agcgatatct agctccgaag ggatttggag gggttcaggt ctctccacca 180
aatgaaaatg ttgcaattta caacccttct agaccttggg gggaaagata ccaaccagtt 240
agctataaat tatgcacaag atctggaaat gaagatgaat ttagaaacat ggtgactaga 300

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tghtaacaatg ttgggggttcg tatthttatgtg gatgctgttaa ttaatcatat gtgtgggtaac 360
gctgtgagtg caggaacaag cagtacctgt ggaagttact tcaaccctgg aagtagggac 420
tttccagcag toccatattc tggatgggat ttcaatgatg gtaaatgtaa aactggaagt 480
ggagatatcg agaactacaa tgatgctact cangtcagan aatgtcgtct gactggncctt 540
cttgatcttg cactggagaa ngaataacctg ccgtctaaga atgccgaata tatgaaccat 600
ctcattgcat tgggtgtgcan gggtcancctt gatgctttca acccatgtgg gctggaacat 660
aangcaattt ggacaactgc ataatactaac aatactgggt cctgcaggaa gtaancnttc 720
tttccagaa g                                     731

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<210> 6
<211> 848
<212> DNA
<213> Homo sapiens

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<220>
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848
<223> n = A,T,C or G

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tcgggaaaag tcaaaccatc tctcaaagga tcaaagagct cagccataga cagagccgcc 180
ggaggaaaagc ggagtcgctg catcagatga aaggggcccc tcagcctcac toctcaccgc 240
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gaaaggctgg atccttaatc caggccggag acaaagccgc gccagggagc tcgcggcgcg 360
cgccccctgt cctccggccc gagatgaatc ctgcccaga agccgagttc aacatcctcc 420
tgccaccgac tcctacaagg ttactcacta taaacaatat ccaccaaca caagcaaagt 480
ttattcctac tttgaatgcc gtgaaaagaa gacagaaaac tncaaattaa ggaaggngaa 540
atatgangaa acagtatttt atgggttgca gtacattctt aataagtact taaaanggaa 600
agtagtaacc aaagagaaaa tncaggaagc ccaagatgtc taaaaagaa attttccaag 660
atgatgtctt ttaatggaaa anggatggaa ctacattctt tganacanta ttgaatgggg 720
gattttttcc aatacaaaaa aaaaaancct ggttncctga aggggggttt ggtanttttt 780
ccaaaaaggg aaaaagggtt ttttttttc cccggggggg gaaaaaancc ccccccccc 840
ccccgan                                     848

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<210> 7
<211> 737
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 669, 685, 718, 722
<223> n = A,T,C or G

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catctgtagg agacagagtc accatcactt gccgggcgag tcagggcatt agcaattctt 180
tagcctggtg tcagcagaaa ccaggagtg cccctaagct cctactccat gctgtatcca 240
acttgaaaag tgggggtccca tccagggttc gtggcagtg atctgggacg gattacactc 300
tcaccatcag cagcctgcag cctgaagatt ttgcaactta ttactgtcaa cagtattata 360

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gtaaccctcc ggtcactttc ggcggaggga ccaaggtgga gatcaaacga actgtggctg 420
caccatctgt cttcatcttc ccgccatctg atgagcagtt gaaatctgga actgcctctg 480
ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg aagggtggata 540
acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc aaggacagca 600
cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa caccaagtct 660
acgcctgcna aagtcacccc atcanggcct ggagcttcgc cccgtcacia aaaaagcntt 720
tnaacaaggg gaaaaat                                     737

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<210> 8
<211> 762
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 668, 680, 689, 700, 705, 755, 761
<223> n = A,T,C or G

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atagcccaaa aggggtcaaaa actgggacaa gcttgcaaaa aactctgtgs cccaaaaaaa 780
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<210> 10
<211> 966
<212> DNA
<213> Homo sapiens

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<220>
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<222> 20, 100, 102, 103, 640, 698, 705, 747, 768, 772, 778, 779,
793, 811, 815, 830, 838, 844, 853, 854, 855, 862, 869, 870,
871, 872, 873, 883, 897, 907, 914, 946, 949
<223> n = A,T,C or G

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gatttcccca aagagtgaag aaccaaggga catcagattt cttaccacgc cgaccaagat 360
attcctggga atggcacagt tgatcatcaac attaccacag tatggatgag tttagccact 420
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tgatattaca gatgtaaaac ctggaaacta tctcctaaan gtcaagtgtg aacccacta 660
cctggttcct gaatctgact ataccaacca atggtgtngc gcttnggaca ttcgctacca 720
caaggaaaaa catgccgat gcctcangct ggaccaattt caccctntt anaaagggna 780
aaaccaaaac ttncccaatg ggaataaaat naaanggcct tggggggttn tttaaaangg 840
gggnaaaaaa aannnacctt anccttcenn nnnngggaat ttntttttt tttttgnaaa 900
aaagaanaac ccnnaaaaac cccccaaaag gaaaattttt tttttnggna ccggtttttt 960
aaatta                                           966

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<210> 11
<211> 852
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 646, 710, 712, 728, 736, 754, 776, 799, 844, 847
<223> n = A,T,C or G

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ctctttgcca aatgcccatt tctaatcgag gtttgaggga ataaaacctt gataaactga 180
gaaccgtgaa atgtctttca gggcagaaac tgattttatc aggtcccatg tcccaggcac 240
ccagcaggtg ccagagaaat ggtcagctac atgagagtta ccagtttcca ataattcaat 300
acatctaata gaaggactag ctggagagac agatgcttgc aaacctggca gtggaagcca 360

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aatctcacat gtctacactt atttttcagc taccttccca cattgtgtag tttatcaaaa 540
ttagagaaga gtgaaggagc ttaacattcc aacataatth ttttaatacc gtggcaaaaa 600
cacatagcat aaaatttacc cttaatcatt tctaaacata tagagntcag taagtthtaag 660
tatattccat tgggtggacaa ccagtatcca aaactthtca tcttgcaaan gngaaactgg 720
atthggtnaa caactthtct tttcccccagc catncagcac cactthtctt gggagnttht 780
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<210> 12
<211> 1090
<212> DNA
<213> Homo sapiens

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<220>
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791, 796, 814, 829, 843, 849, 856, 876, 887, 899, 905, 920,
921, 922, 933, 934, 938, 940, 941, 944, 955, 965, 968, 972,
978, 980, 981, 986, 1000, 1038, 1051, 1066
<223> n = A,T,C or G

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<400> 12
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aaggacctat gaaatgcaca ttccacgttc cagaaactcg ctgtcatggg tggggctcaa 180
ggagatggat gcagtatcaa taggggtgtga ttcacgtctg tttggagggg ggcacccagc 240
acagccttga gagggctcgt caccacatg aaggggtcag ggaaggcttc ctggaggagg 300
gggtgtggga taagatttga aggaacagga ggagttcagc aggcagacag aagaaggthc 360
taggtagagc ggcccagagc tgggagagaa tgattggatt ggatcagcca gtaatggaga 420
agtactgaa agaaattcag tgggcccagc ggtgctagaa gaatgaggtc ttcttccaaa 480
ggtgggaggg ggcagaccac cacanggttc ttccaacgcc aggcttgnng gggctcagac 540
cttactttg ggagcactgg gggaanccag aaaaagaact tgtganccaa gggaangga 600
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gaaggaaaggc ttnggccgga aangtccaaa accggnaaag tggagtgcac anctthtca 720
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ggncccccnc ccccnthttt ttttccccc caaaanggcc cggggangtt ccccttnc 900
aacnaaatt tthaaacaan nnaatthttt ccnaagnan ncangtttg gggcngggc 960
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<210> 13
<211> 841
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 661, 716, 724, 729, 751, 762, 785, 790, 805, 834
<223> n = A,T,C or G

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<210> 14
<211> 870
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 56, 57, 573, 614, 714, 750, 756, 770, 771, 784, 785, 807,
819, 851, 859
<223> n = A,T,C or G
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<210> 15
<211> 610
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 57, 340, 345, 351, 354, 356, 372, 375, 380, 382, 387, 392,
395, 406, 416, 418, 422, 426, 431, 465, 467, 471, 490, 499,
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505, 506, 521, 532, 545, 557, 583, 589

<223> n = A,T,C or G

<400> 15

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tgtaaaaaat gaaaataaag tttttttaat ggaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggggngggccg ntcnanttta 360
aagggcccg tnaancccg tnatcancct cnacongccc ttttanttgc caccntntg 420
tngttngcc ncccccg ccttccttga cctggaagg ggcncnccc nctgcctttc 480
ctaaaaaan gaggaatng catcnnattg tctgagtagg ngcattttat tntggggggg 540
gggngggggc aggcacnaa gggggaggat tgggaaacaa tancaggcnt tctgggggatg 600
ccggggggct                                     610

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<210> 16

<211> 762

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 645, 703, 718, 758

<223> n = A,T,C or G

<400> 16

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ggtagtggct gggggcggtt tgggtgaatc ttttgctaca aaccatgttt gcgtttgagc 60
tctccaggat tttacatttt tgggtaacct cagtgattcc cattggtgta ggaaatgaga 120
ccctctctga agctgaggag agcacgttga tctgaacttt aaatcaatca gtgctgctgg 180
cacaatgaaa ggtggaactg cacttctgtt gagctctcag ttctgcggaa tttggtactc 240
attaccgtat tcgccgtact aagtgggttt ctgttagtct taacagtctg ttttctttta 300
aaagcatgta gggcttcatt gccatgttct gtgggtgttt ggcaggttac cgatggggaa 360
gattcttgtc acagaatcag caataccata gtttttctac atgtgctcag ctgggggtgt 420
ggacaggtag ggggtgggaa agaagaggct ctgcgttctg ggggcttttt cttctcctcc 480
ccctacccgg tttccctccc tgttttctta cctctacggc aagcccaaag tgtcttcccg 540
ggagcccagc gcagcccccg gctcttacct aggacccgc cccgtgctga gccttctgct 600
gaggtccttg cgtggagcac actcattcct ccaacccttg cgctnccgtt tctctctttc 660
tccgtcacgt tccaccgaat cactggctga ccgggtccat ggnaagcttc ccatcttnc 720
aaaaggctgc ctgcgcctct tgagcctgcg cttccggntt aa 762

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<210> 17

<211> 1193

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 19, 20, 22, 50, 55, 495, 496, 521, 522, 529, 531, 535, 552, 567, 568, 573, 576, 592, 602, 606, 611, 617, 621, 623, 635, 636, 671, 687, 699, 704, 721, 722, 732, 761, 771, 775, 786, 812, 817, 823, 853, 873, 874, 882, 891, 892, 905, 908

<223> n = A,T,C or G

<221> misc\_feature  
 <222> 912, 913, 914, 930, 933, 940, 944, 956, 962, 975, 978, 992,  
 993, 997, 1001, 1008, 1019, 1020, 1021, 1029, 1050, 1066,  
 1068, 1075, 1076, 1077, 1080, 1095, 1104, 1109, 1117, 1118,  
 1120, 1123, 1134, 1143, 1191, 1192  
 <223> n = A,T,C or G

<400> 17  
 gcccaacaca atggtgcggn tncgggagaa attgcaggag gagatgcttn agatntagga 60  
 agccgaaaac accctgcaat ctttcagaca ggatgttgac aatgcgtctc tggcacgtct 120  
 tgaccttgaa cgcaaagtgg aatctttgca agaagagatt gcctttttga agaaactcca 180  
 cgaagaggaa atccaggagc tgcaggctca gattcaggaa cagcatgtcc aaatcgaagt 240  
 ggatgtttcc aagcctgacc tcacggctgc cctgcgtgac gtacgtcagc aatatgaaag 300  
 tgtggctgcc aagaacctgc aggaggcaga agaattggtac aaatccaagt ttgctgacct 360  
 ctctgaggct gccaacccga acaatgacgc cctgcgccag gcaaagcagg agtccactga 420  
 gtaccggaga caggtgcagt ccctcacctg tgaagtggat gcccttaaag gaaccaatga 480  
 gtccctggaa ccccnatgc gtgaaatggg aaaaaacttt nncggttgna ncttnttact 540  
 acccaaaaac tntttgggcc ctttgcnnng gtnagnattt caaatattga anggggggaa 600  
 tnggtntcc ncctttntgg nanaacccaa aaccncttc aaattttaaa aaaagggggc 660  
 ccttggcctt ntggaaattg gccccntcc ccgaaaaanc tttnttttta aagggggcaa 720  
 nnaaaaacac cnaatttttt tttggctttt ttccaaaac nttttttctt ncctngaacc 780  
 cttggngggg aaaacaaaaa ctgggattcc cccccnttg ggnggaaacc ccccaaaaaa 840  
 gggaactttt ttnttaaaac cgggggaact tannaagggg cngggttttt nncaaaaatt 900  
 tttnttnc gnnnaccttt taaaaaaatn gnccccccn ggnggggttt tttttncccc 960  
 cnaaaaaaaaaaaaanctntt tttttaaaaa anntttnggg nctttttntt ttttggggnn 1020  
 naaattttnt gaaaaaaaaat tttttttttn ccccccccc cttttnanaa aaaannnccn 1080  
 tttttttaaa aaaanggggg gtnttttng gggggggnan canttttttt tttnccccc 1140  
 ccnttttttt ttttttaaaa aaaaaaaaaa aaaaaaaggg gggggggggg nnc 1193

<210> 18  
 <211> 689  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 21, 54, 639, 649, 663  
 <223> n = A,T,C or G

<400> 18  
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 gagtcctgag gcatagcact aaggaggcaa gtgtggctgg agcacagtga gtaagtgggg 120  
 gagagctgca ggaagtgtgg ccagattgct aacagcggac atgccgtaaa gggctctaca 180  
 gacattacga ggactttggc tcttacctg tgtgagatgg gaagtgtatt cattttcttg 240  
 ttgctgctat cataaattac caaaaatttc gtagcttaaa gcaatgtaga tttattctct 300  
 ttcagtctcg gaggtcagaa gtccaaaaac gagtcttcta tggctaaaag caaggtgtct 360  
 gcagggccag ttccctctgg agacttcagg ggatgatcca gtccttgac tttccagctt 420  
 tgagagccca cttgcactcc ttggctagta gctgcaccac tccaaactcg gcttctgata 480  
 tatctccttc tctgacttgg accctcctgt cttcctgttt taaagacact catgatgaca 540  
 ttgggtccac ctggataacc cagaataatc tctccatctc aagatcctta atcacatctg 600  
 ccatatcttt tttactgggt aaaagggaca tcatcttang gtcttgtgna aataaggatg 660  
 tgnaaaatat ttgggggaga gcatttttt 689

<210> 19

<211> 678  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature

<222> 54, 56, 109, 114, 115, 116, 123, 126, 128, 133, 142, 143,  
 153, 155, 156, 163, 164, 173, 174, 176, 177, 179, 183, 186,  
 187, 193, 199, 200, 206, 207, 211, 213, 256, 261, 275, 281,  
 283, 290, 298, 351, 370, 378, 379, 381, 421, 429, 446

<223> n = A,T,C or G

<221> misc\_feature

<222> 452, 459, 471, 493, 499, 500, 507, 517, 536, 538, 539, 540,  
 551, 555, 562, 564, 565, 566, 571, 577, 582, 587, 602, 603,  
 604, 622, 624, 628, 658, 669

<223> n = A,T,C or G

<400> 19

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ggtcactctc tggatatgaa gagcggtccc ctgccgccag gcggttggga tgantntcat 60
ttggactcag cgggccggga aggggacaga gaagctcttc tgggggatnc cggnnntggc 120
aanttnnaa aanccccc aaanttccggg ccnanntaac cannatttgc gttnanntnt 180
ttnttnnccg ctncaggggn ttcccnnggg ntngggggaa aaatccctca ttttgcaaag 240
caaaaatgtt agcttnccga ncaagctttt ttcangtttt ncnttttggg ccttcagnct 300
caaaatactt tgggccccgt tgggttgatg ccggctaccg ttaagaactt ngggcggcgc 360
aaaatttggg ttgtcccnnc ncagtttata ctaggaccct tctggaacta tttatcccc 420
ncggggganc ctttgtttgg gaaaancccc gncaaaaana cccccggggg ntggttcctc 480
cccgcggggg gcntttttnn tgggaanaaa ttgggggnccc cccaaataaa aaattntnnn 540
ccaatgggat ngggnggggc cntnnnacct ncctttntcc cnggggnaaa aaaggggggg 600
gnnnaatgcc tttctaccaa ananaagngg ggggggggga cccaaaaagg gggggggntt 660
tttttttntt ggggggaa                                     678

```

<210> 20

<211> 695

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 20, 21, 56, 57, 633, 684, 694

<223> n = A,T,C or G

<400> 20

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ggaaagctgg tcagaatctn naagatgggg aaggatctgg aagggtcac gggctnnatg 60
actgtttgct ctggtatccc tatagccttg aggaggccct cagaaccaca ggatggctgg 120
ggtggggctg gagtggtctg ctctccagtg ggagcttctt tggtaggaga acatggcttc 180
agtggatcca gagatgcctc gtcttcccc tcttctctt cttccccttc ttctccact 240
tctgatttct gcttacacag gtgatcaagg aaggccacac ggtgcagaag tggtagttcc 300
tgggaagtag ataaagatat tctcaggcat gaagcctttt cagatacaca aggtttgcta 360
tgaggcactc agtctgctcc atatccagag tggacagtta ctcacctaat cccacgtgtg 420
tggccagtca cctacacagc tcctcatcta gtgttaatgg tcattaccca gtcctcattt 480
ggagatcagt attccctcat tctacatcta gaatccatgg tcactcacct ggcttcaaat 540
ctaagtcaa gtggttactc acccagcctc acatctaggg cttatagtca ctcacctggg 600
cccacattca taccaatgac ctcacattgt ggngcagcag tcattcatcc agctgtcagt 660

```

ccaggtcacc caccttggct tgcncctatt ccana

695

<210> 21

<211> 760

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 75, 601, 606, 627, 653, 701, 739, 741

<223> n = A,T,C or G

<400> 21

```

tttttttttt tttttatttt aaaactatct tatatatattt cttttattga tacatatattt 60
acatatatat aaggnacaca tgagcatttc ttgcatgcat agaatgtgta atgggtcaagt 120
cagcgtattt ggggtatcca tgatcttgag tatttaccac ttctatgtgt tggtaacatt 180
tcaagtcctc tcttccaact actttgaaat atgcaatata tttttgctaa ctatagttca 240
ctctagtatg ctttctaaca tcagaactta ttcccttgat ctaaatggaa atttgtacat 300
attcaccaat ttctcttcat ttcccttct cagccccgga taacttattc tattccctat 360
ctccatgagg tgaagttttt caccctccac atataagtga gaacatgtgg tatttgtctt 420
tctgtgcctg gcttattttca cttaccataa tgacctcaag ttccatccat gttgttagca 480
ataacatttt actctttttt atggccaaat agtattccac tgtgtacata aacattttct 540
ttatccctgt gccactgatg gatgcttagg ttaattccat atctttggta tcatgaatag 600
ngctngataa aatatgcaag tgcaagnatc tctttgatat actgattctt ttncgtgggg 660
tatacctggg ttgctggaac atgggggggg tctattttta nggttttgga gaaaactaca 720
tactggtttt ccccgaggng nggtctctaa ttataccttc 760

```

<210> 22

<211> 832

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 307, 335, 337, 343, 358, 467, 516, 573, 591, 599, 647, 692, 723, 741, 749, 751, 757, 761, 771, 800, 818

<223> n = A,T,C or G

<400> 22

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catgataatg cacactggag atggacctca taaatgtaag atatgtggga aaagctttga 60
ttctcccagt tcatttcgaa gacatgaaag aattcacact ggggagagac cctataaagt 120
taaactatgt gggaaaggct tcagggtctc cagttacatt caactacatg aaaggactca 180
cactggagag aaaccctatg gttgtcagca atgtgggaaa gcattatctg atctctcaag 240
ctttcgaaga cacatgataa cacatactgg aaatggacct cataaatgta agatatgtgg 300
gaaagntttt gattatccca gttcagcgca aacangngag aantctcact ctggaganac 360
cctatgaatg caaggaatgt ggtaaaacct tcagtcattc aagttactta cgaatacccc 420
gaaagagttc atactggaga gaaacccgta taaatgtaaa ggaatgnggg aaaccatttc 480
attggtcccc ggaggccttt tcataaacct tgaaanggac ccaccagtat tgggagaaaa 540
cccctattaa gtgtaaaaga aatggggggg ggnaagcaat ttttcatttg naatcaagnt 600
tcccttttca ttaaaaccat ggaaaatggg accttcacct tagaagnaaa aaacccccct 660
attgaagtgg gttggaaacc attggtggaa gnaaaaggcc ctttaaagta cttttttcaa 720
gcnttttttt taccaaaatt nccctttang naagacnttc nccaccttgg naaaaaaaaa 780
ggtttggttt ttggaaattt tttaaaaaaa atgggtancc ttaaaaaaac cc 832

```

<210> 23  
 <211> 728  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 20, 55, 559, 598, 651, 670, 707, 722  
 <223> n = A,T,C or G

<400> 23  
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 acagatgaag tgcttcattt ttatccctct ggcacccctg ctgcaccata agccctgtag 120  
 cacttgataa gatagatggg aatactgagc tcagagagcc cgcagtagca ggagagacag 180  
 ggatttgaca aatgagaatg catagaaaaa tgctgggact atgaggagct cgaggtgatg 240  
 gtgaggctta tgaaggtctg cagctgacac ctggtgtgga gtggaacttg gccagggtaa 300  
 agaaaggggg caggaaagat gtgccatgca gaggggagca ctgcctgtaa gggccaagat 360  
 ggaagggatc acagtaaattg caaaactcag aaaaatcggg tatgtttgtg atggaaggga 420  
 gcagaggttg gagctggcac tgccagtggg gactttagtc ctaaagcaaa gcaaaatgtt 480  
 cttctaaaac agtagggctc gatccctgag ttccagaaac tgggtggcacc actggatttg 540  
 acctttagag atttaccang ctgcatgtgt ggtggatggt ggacagaaga tgggggcnag 600  
 gctggacaca ggctacccca gctattgcca tgccctcttg atgggggttg ngcttgata 660  
 ggagtgatgn gatgtctgac tggggaaaga ctaccctgtg ggagtngat ttgggaataa 720  
 antgcaga 728

<210> 24  
 <211> 203  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 20, 21, 56, 195, 197  
 <223> n = A,T,C or G

<400> 24  
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 actaacagat tataataaat tgtcatcagt gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
 aaaaaaaaaa aggnanccc cct 203

<210> 25  
 <211> 990  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 55, 531, 541, 585, 609, 625, 637, 652, 653, 691, 703, 727,  
 747, 748, 753, 754, 757, 760, 784, 791, 797, 806, 823, 836,  
 855, 870, 874, 902, 923, 927, 964, 967  
 <223> n = A,T,C or G

<400> 25

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gacacaatgt tggcactctt ggttctgggtg actgtggccc tggcatctgc tcatnatggt 60
ggtgagcact ttgaaggcga gaagggtgttc cgtgttaacg ttgaagatga aaatcacatt 120
aacataatcc gcgagttggc cagcacgacc cagattgact tctggaagcc agattctgtc 180
acacaaatca aacctcacag tacagttgac ttccgtgtta aagcagaaga tactgtcact 240
gtggagaatg ttctaaagca gaatgaacta caatacaagg tactgataag caacctgaga 300
aatgtggtgg aggctcagtt tgatagccgg gttcgtgcaa caggacacag ttatgagaag 360
tacaacaagt gggaaacgat agaggcttgg actcaacaag tcgccactga gaatccagcc 420
ctcatctctc gcagtgttat cggaaccaca tttgaggggac gcgctattta cctcctgaag 480
gttggcaaa gctggacaaa taagcctgcc attttcatgg actgtgggtt ncatgccaga 540
nagtgggatt tcttcttgca ttcttgccag tggttttgta agaanaggct tgttcgtacc 600
ctatggacng tgagaatccc aagtnagacag aacctnttcc gaccaagggt annacttttt 660
attgtccctg ccctggggct tcaaataatt naatggggta canttttacc acccttggga 720
acccaanaaa gcccgatttt ttgggannaa aannaanttn ggtttccccc ccattacttg 780
ggantcttaa ncttgcnaatt tgggcncaaa acccccacac canaaaaatt tttangcct 840
gggttggggg ggggnaaaaa tgggaccctn tttnaaacc cctggggatg gaaaaattta 900
cntgggggac cttgccccaa aantttngaa aagggggaacc aagggcctgg gttttttttt 960
tcncanaaaa aatttttttt ttttaagggg

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<210> 26

<211> 769

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 50, 572, 624, 625, 641, 648, 701, 705, 714, 764, 768

<223> n = A,T,C or G

<400> 26

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ttctaagctt tgccttggcc tgaactggtt ctggggaaaa acaaaaaaac aaaaaacaac 120
ttgtggagct gcttggttaat gagtttcata accaggcagc aagagccagc tccaagcctc 180
aagcccactg tctactccct gccctgagg agcctctggc cagtctgctg cctcccaccc 240
ttctcctctg cctctcttca ccacaggjca gctgcccgtg aggacagaca atggagcagc 300
tgtcctgccc tggcaccctg cataccagct gtccactctt atctgcacac acactttctg 360
ggatattaag aggtgcagct ttgtgcacag aattgggaag tgggggagga ggagggggaa 420
gacttctgac cctctcttag aagaaaaggg gatagggtgg ggggtggggg cttccgagag 480
cccttttgtc cttgagcccc tgtgttaaga agaatgctca tcccagggc tgagtcaaag 540
tcccaggcta ctaggcaggg gggcaagtcc tncacaacct gggaagaata actcagcttg 600
ggattgctga ctgaagccgg cganntgtgt cctggcccaa ngggcggnag cccttgtggg 660
aggacttggc gtggggcttg acctggtttt tcttttgttg naacnactgc ctgnctggat 720
gggaagaaca acatggattt ttggacaaac ccagggaatg caantaant 769

```

<210> 27

<211> 1182

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517

<223> n = A,T,C or G

<221> misc\_feature

<222> 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529,  
530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541,  
542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553,  
554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564

<223> n = A,T,C or G

<221> misc\_feature

<222> 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576,  
577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588,  
589, 590, 603, 605, 607, 609, 610, 637, 638, 639, 641, 645,  
650, 652, 653, 654, 656, 669, 670, 671, 672, 674, 679

<223> n = A,T,C or G

<221> misc\_feature

<222> 684, 691, 692, 699, 714, 720, 731, 733, 738, 741, 767, 774,  
782, 783, 784, 796, 804, 809, 810, 811, 812, 813, 814, 816,  
820, 821, 822, 832, 840, 841, 846, 847, 848, 864, 886, 888,  
889, 890, 899, 900, 901, 912, 913, 917, 932, 933, 934

<223> n = A,T,C or G

<221> misc\_feature

<222> 935, 936, 937, 939, 941, 942, 946, 948, 950, 956, 967, 984,  
999, 1015, 1016, 1022, 1033, 1038, 1039, 1040, 1041, 1042,  
1043, 1044, 1045, 1046, 1047, 1048, 1055, 1056, 1057, 1060,  
1061, 1062, 1063, 1066, 1068, 1088, 1089, 1090, 1091

<223> n = A,T,C or G

<221> misc\_feature

<222> 1094, 1096, 1100, 1109, 1110, 1115, 1117, 1121, 1122, 1123,  
1125, 1126, 1127, 1128, 1174, 1177

<223> n = A,T,C or G

<400> 27

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tgaccagacc gcagcctttg tgaaccaaca cctgtgcggc tcacacctgg tggaagctct 180
ctacctagtg tgcggggaac gaggtttctt ctacacaccc aagacccgcc gggaggcaga 240
ggacctgcag gtggggcagg tggagctggg cgggggccct ggtgcaggca gcctgcagcc 300
cttggccctg gaggggtccc tgcagaagcg tggcattgtg gaacaatgct gtaccagcat 360
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acccgccgct cctgcaccga gagagatgga ataaagccct tgaaccagcc nnnnnnnnnn 480
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn gggggggggg 600
ccntntnann tttaaaaggg ccctttttaa acccccnnaa naaancnccn cnnngngggg 660
gccttttttn nngncccncc cccncttttt nngtttttng cccccccccc ccnggggggn 720
tttttttttt nancccnngg naaaaggggg ggcccccccc ccccnngggg gggntttttt 780
tnnnaaaaaa aaaaangggg gggnaaaann nnnncnccn nntttttttt tnaaaaaaan 840
nggggnnttt tttttttttt tttngggggg gggggggggg gggggncnnn aaaaaaaann 900
nggggggggg anntttngaa aaaaaaaaaa annnnnntnt nngggngngn gggggnnttt 960
ttttttnggg gggaaaaaaa cccngggggg ttggggggnc cccccccttg ggggnnaaaa 1020
angggggggg ggnnggttnn nnnnnnnntt ttttnnccn nnnccntntt tttttttttt 1080

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tttttttnnn nggntnccn aaaaaaann gggtnnttgg nnnannnncc ccccccccc 1140
caaaaaatgg gggggggggg gggcccccac aaantntttt tt 1182

```

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<210> 28
<211> 792
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 605, 638, 640, 706, 713, 724, 753, 759
<223> n = A,T,C or G

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ggtcagcatc acctggaggg cttatcagaa tgcagcctgc tgggctcacc ccagagttt 180
tggatttttt ttgtgttaca ggtaagcccg agaatttgca tttctgacaa gatcccagg 240
gaggctcact cgtgctgctg gctttgggat cacacttaac taccggtata gtggggaaa 300
acagggtttg gggtcacaga gggcagagct ggaattccag ctccctccag ctgtcagact 360
ttgggccagg cacttagttc ctctgagcct catctatgaa acgaaaacat ctgggtattt 420
ccccgcgaag gggatgatga ggattgtatg agctcatgtg tgttagaagc tgctcgcagc 480
ctttgagtac acagcaagca ctcagtaagt gttaggacct tttcttgcca aaaatgaagg 540
caccagaaaa cctgggtgtaa aaaaattacc acagataaac ctgcaggaac aaaaatgccg 600
gccangtgcc tgtaatccta gcactttggg aagctgangn gggtaggatc cctgaggcag 660
gagttcgaga ccagcctggc cacgtggtga aaccctgtct ctctanagaa tanccagggtg 720
tagngatgcc cctataatcc gggtcttagga agntgagcng aaatacttga cctgagggtga 780
gtgactgatt cc 792

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<210> 29
<211> 693
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 226, 236, 243, 256, 257, 259, 268, 285, 300, 303, 324, 334,
415, 449, 452, 462, 469, 496, 509, 510, 512, 517, 529, 548,
565, 567, 573, 579, 597, 599, 619, 626, 628, 630, 662, 663
<223> n = A,T,C or G

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<400> 29
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caacattgag cagttgcctc gtgctccggg ctcagcactg gcttattaac atactcttac 120
cactcagaga gggacactga ggagaagaga aatggtaaac atcataagaa taaaatgaga 180
ggtaagaata aaatgagagt cagaagcaaa tgggaggaac tctgantcag gaattnggta 240
aanatcgggg gaaacnnant gacctganat aatggggggg tcatntttgg ggaactgtan 300
ganattcttg gcgcctggag acancagggc aaanaggaag gaagaacctg gatgccctag 360
cgaaccaagc tcccgcattc tatccccaca tccccctgga cgtgtttatt aggggccact 420
ggccaaatga caagtcctaa agatcacgng angggggggg tnccccggnc ttttggggcg 480
cccaaaacct ttttntgccc cttcttctnn gnaaaanccc ccaggaaant ttgcctttgc 540
tccccagnaa aacttgatat gatcntntgc ganccttigna aatgggggag tctcctntnt 600
tgtcttcttg gggcactcna aggagngnan aacgtcaaac cttgggggac taggggttgc 660
annaatgggt atgaggggtc atcctgggag ggg 693

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<210> 30  
 <211> 1080  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 20, 55, 240, 248, 345, 366, 442, 447, 449, 484, 508, 514,  
 522, 527, 542, 545, 559, 569, 571, 590, 640, 650, 667, 689,  
 690, 699, 703, 704, 708, 713, 714, 715, 732, 742, 745, 761,  
 791, 792, 793, 802, 809, 820, 831, 840, 841, 861, 872  
 <223> n = A,T,C or G

<221> misc\_feature  
 <222> 873, 939, 975, 993, 1004, 1005, 1008, 1044, 1066  
 <223> n = A,T,C or G

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 ctaggcattg aatgatgagt agaatgttgg taactatagt caggggaagg gtattccagg 120  
 atgggggcct cttcaacatt acatcgctgt ctccagcccc accaacacca cttatgttgt 180  
 acagtatgcc ttggcaaatt tgactggcac agtgggtcaac ctaccccgaa aacagtgccn 240  
 agaatccnaa gtaaaatccc aagtgaaaac aaagggatct ggtattgaag tacctcatgg 300  
 ggtcccaggg gccctttttg catttcttaa atgaaaacgg acccngactt cccccgggtg 360  
 gtggtncctg ttcttactgg caccgattaa gcccaggggc cctttggtcc ttccctgccc 420  
 ttttggaac ttgaaattca antgggnanc cttcttacct ggaaataact tcttaccat 480  
 gggnacctgg aaaaaacccc cctttggnaa aaanaaaatt tncccgnggc cccccgggga 540  
 anatnttttc tttcaattng gcccccggnc naaaaaaaaa accctttggn aaattttgga 600  
 atccaacccc ccttggaacc cagttggggg gcctttttcn gggcaatttn ccctccaatt 660  
 tttttntttt ccccccttta atttgggggn aaccocctna aanngggnga ttnnnaattg 720  
 gccccccaaa anccttgga anggnccccc ttttttcaaa nttgggggtcc ccccccggg 780  
 gaaaccccc nnnaaaccct tnggggcent aaccgggggn ggggggggga ncccccccn 840  
 nttttttttt ttttgcccaa nttaaaaaa annttcacct tttcttaaaa aaaaattttt 900  
 tttccccctt gggggcaccc accccccttt ttttttttna ccttgggaaa cccccctt 960  
 ggggccccgt tttntaaaa aatgggggat ttncccttt aaannagnng ggggaccttt 1020  
 tcccccaaaa aaaaaaccgg ggnnaaaaaa aaaaaaaaa aggggntccc ctttttttcc 1080

<210> 31  
 <211> 1027  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 21, 53, 54, 88, 91, 94, 369, 467, 539, 579, 582, 598, 606,  
 623, 634, 644, 651, 668, 674, 684, 703, 718, 731, 744, 748,  
 756, 758, 788, 798, 803, 817, 818, 830, 850, 851, 853, 867,  
 883, 888, 889, 894, 903, 905, 906, 907, 909, 919, 922  
 <223> n = A,T,C or G

<221> misc\_feature  
 <222> 927, 930, 931, 935, 936, 941, 942, 953, 956, 961, 962, 964,

966, 991, 1007

<223> n = A,T,C or G

<400> 31

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ggttgaacca tccttgcat nctgggatga atcccatctg atcatggtga aanntttata 60
ctcacaatat tggggggccat caccacance natntccaaa actttttcat cacaccaaac 120
agaaactctg tacctaccaa gcaataactc ctcatactcc ctgaccccag ctccctagtat 180
cctctattct gctttctgtc tccatgaatt tgccttttct aggtatctta cataaataga 240
atcataaaat atttgtccct ttgtgtctgg tttcttttac ttagaaatgt tttcaggctt 300
catctatggt gtcaaataata tcagaatttc attccttttt aaggctggga taatatccct 360
aacagtggng tgaggatctc agttctccat ttcctaccaa cagtggtttt tcctttttaa 420
aaattatcat agccatccta ggatctgtct aatttggcac ataaggngtt actgtggaaa 480
ggagcacggg actacgcaga agtccaagcc taatcactaa cagactaaca gggggaggng 540
gacaatccgg gactctaagg gcctcagggt cttttctcng gnaaaggggg agctaaanaa 600
tgccngcct ggccaaacct ganataaggg gggnggggaa aaanaaagg nggccaaata 660
aaaaaaanct aagnaccag accncctaga aaaggggggg gangcttatt tatttttnc 720
ccagaaaagg ngaaaacct aaangggngg ggcagnanaa ttggggccct ggtaaggca 780
cccccttnaa tatcccncc cntgggaac caggggnngg ggccctcaan aggggccctc 840
caaaaacatn ngnggaaaga aaggaangaa cctttaacaa ccngggtnnt gggnaaagg 900
aantnnnang ggaaaggng gncctntcn ngggnggggt nnaaggggga ccnganaaaa 960
nngngngggg aaaaatccc ggccccggg naaaacaaag gggaacncc cccccccaa 1020
aaaaaag 1027

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<210> 32

<211> 1193

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 55, 56, 603, 635, 658, 681, 699, 703, 725, 731, 739, 752,  
759, 775, 810, 817, 827, 831, 834, 840, 883, 891, 894, 902,  
906, 915, 924, 937, 945, 946, 954, 959, 967, 968, 970, 971,  
974, 975, 976, 977, 985, 986, 987, 989, 997, 1005, 1013

<223> n = A,T,C or G

<221> misc\_feature

<222> 1014, 1015, 1019, 1050, 1052, 1053, 1054, 1055, 1061, 1062,  
1063, 1072, 1081, 1088, 1089, 1094, 1098, 1099, 1102, 1103,  
1124, 1125, 1139, 1158, 1176

<223> n = A,T,C or G

<400> 32

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ggttctttta aagaggtgag agcaacgtgc tttgggagca gagaagagg agaanncagc 60
atcttgcttg gatgagccag gggacacaga agagaagccc actatctcat ttaatcttta 120
caactctctt gcaaggttcc ctggttgatga aaatacatga gataaatcat gaaggccact 180
atcatcctcc ttctgcttgc acaagtttcc tgggctggac cgtttcaaca gagaggctta 240
tttgacttta tgctagaaga tgaggcttct gggataggcc cagaagttcc tgatgaccgc 300
gacttcgagc cctccctagg cccagtgtgc cccttccgct gtcaatgcca tcttcgagt 360
gtccagtgtt ctgatttggg tctggacaaa gtgccaaagg atcttcccc tgacacaact 420
ctgctagacc tgcaaaacaa caaaataacc gaaatcaaag atggagactt taagaacctg 480
aagaaccttc acgcattgat tcttgtcaac aataaaatta gcaaagttag tcttgagca 540
tttacacctt tgggtgaagt ggaacgactt tatctgtcca agaatacag gaaggaattg 600
ccngaaaaaa tgcccaaac tcttcaagga gctgnggtgc cccatgagaa tgagatcncc 660

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caaagtgccg aaaaaggtag ntttcaatgg gacttgaanc ccnaagaatt ggtcattaaa 720
aactnggggc ncccaattnc ccctttaaaa anacttcang gaaattggaa aaatnggggg 780
ctttttcccc gggggaaatg gaaaaaaaaan ttttttncctt aaaattnccc naanttgggn 840
tgatacccc caatatttcc cccccgcct ttttcttcc aanggggggg nttnccccc 900
cntttncctt ttttncgggg gaanattaac ccctttnttt ttggnngggg ggnccccna 960
aaaattnnn ncnnnnaaa atttnntnt tgcccnctt ttttnccccc ccnnnaaang 1020
gggggccggg ggaaaaaaaa attttggggn cnnnnaaaaa nngggggggg antgggggaa 1080
nttttttnna aaanaaanna annttttttt tttttttttt ttttnaaaaa aaaaaaggnt 1140
tttttttttt ttccccncc ccccccccc cccctntttt ttgggggggg ggg 1193

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1193  
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 960  
 900  
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